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S. H. S. A. Droydell of An these self-theoretical period 1981 LDAL *
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|--------------------------|---------------|----------------------|------------|----------|------------|---------------------------|-------------------------|------------------|--------------|---------|--------------------|--------|-------|---------------------------------------|------------|---------------------|----------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|--------------------|-------------------|--------------------------------|--------------------|--|--------------------|--|--------------------|--------------------|--------------------|
| ischer RL,               | REGC ) UN     | -FEB 199<br>-FEB-199 | -FEB-199   | -AUG-199 | W09837184- | -                         | <u> </u>                | ding-si          | тедорта      | uedenic | 10001              | . N-⊥9 | 1/22; | 1/22 S                                |            | j. (                | 145                  | 144               | 148                  | 149.5              | 161.5                |                    | 163                | 164                | 164                | 164                | 165.5              |  | 236<br>199         | 274               | 276.5<br>276                   |                    | 288.5                                    |                    | 00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00 |                    | 350.5              | . 1                |
| ., Goldberg              | UNIV CALIFORN | 8; 98US<br>7; 97US   | 8;         | 8,       | A1.        | 70                        | 61                      | te 34            | S (lidita    | plant   |                    | (11rs  |       | tandard;                              |            | 10.4                | <br>2 a              | 17.9              | 18.4                 | 18.6               | 19.5                 | 20.1               | 20.3               | 20.4               | 10 K               | 20.4               | 20.6               | 22.8                                     | 24.8               | 34.               | س س<br>خورها<br>خورها<br>خورسا | 35.0               | 35.<br>8                                 | 36.6               | 40.1   | 42.1<br>42.0       | 43.6               | 47 0               |
|                          | FORNIA        | JS-0804<br>JS-0804   | 98WO-US029 |          |            |                           | t.c. "<br>72            | Locarion<br>3440 | raha ecotype | 3       |                    | · 1    |       | Piotein,                              |            | ر ٠<br>س            | <br>                 | 113               | ب<br>عاد<br>عاد      | 143                | 88<br>88<br>88       | 158                | - 55<br>55<br>6    | 153                | 117                | 93                 | 163                | 78<br>160                                | 94<br>4            | 200               | 105                            | 108                | 107                                      | 108                | 207  | 138                | 141                | 919                |
| Kis,                     | ٠             | 534<br>534           | 2998       |          |            | "puta                     | "putat                  | 1 on ZQua<br>0   | 7.7.7        |         |                    | - 3    |       | =                                     |            | t .                 | 21.                  | 20                | 21                   | 21                 | 21                   | 21                 | 21                 | 21                 | 151                | 2 2                |                    |  |                    |                   |                                |                    |  |                    |  |                    | 21                 |                    |
| Harada JJ, Lotan T, Ohto |               |                      |            |          |            | ative subunit interaction | ative DNA binding site" | lifiers          | Widoo        |         | · F + ransorintion | 2      |       | 208 AA.                               | ALIGNMENTS | 3                   | AAF35218<br>AAF32988 | 0094              | AAGU1857<br>AAG45970 | AAG08108           | AAB53243<br>AAB33084 | AAG45968           | AAG45969           | AAG12403           | AAR33004           | AAG12405           | AAGU8106           | AAB32697                                 | AAB32851           | AAY 96219         | AAG31929                       | AAB33041           | AAGU4652<br>AAB32808                     | AAH33125           | AAP15481   | AAG 11928          | AAG04651           | AAB33002           |
| to M:                    |               |                      |            |          |            | n domain"                 |                         |                  |              |         |                    |        |       |                                       |            | i ibus radiata trab | Pinus radiata tran   | Wheat Drl protein | Arabidopsis thalia   | Arabidopsis thalia | Pinus radiata tran   | Arabidopsis thalia | Arabidopsis thalia | zea mays protein i | Pinns radiata tran | Zea mays protein i | Arabidopsis thal:a | Eucalyptus grandis<br>Arabidopsis thalia | Eucalyptus grandis | Maise LECT # 3. Z | Arabidopsis thalia             | Pinus radiata tran | Arabidopsis thalid<br>Eucalyptus drandis | Pinus radiata tran | NF-YB. Homo sapie  | Arabidopsis thalia | Arabidopsis thalia | Pinus radiata tran |

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                                                                                                                                       Harada II. Lotus I.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1500 Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      TEASTER SHEAT
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Loc. 6%; Prod. No. 2.56 82;
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                                                                                                                                       Coldberg RB.
                                                                                                                               Pischer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lindels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAY96216
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match 100.0%; Secre 804: 18 2); Length 2e8; Rest Local Similarity 100.0%; Fred. No. 2.6e-82; Matches 150; Conservative 0; Mismatches 0; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for improving nutritional value of plant tissue respectively. LET golypoptides and polypholeofides are especially used to increasing a decreasing storage protein contest in cotyledons or leaves. LET also increases reproductive tissue mass, e.g., increases fruit size, seed mass, its protein or its oil.
                                                                                                                                                                                                                                                                                              ₩0200028058-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-SEP-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    is co-expressed in an uniscuse orientation with a second heterologous polynucleotide selected from AP2 and kAP2 and kAP2 to Ecol polynucleotide is also asciul for targeting expression in a seed, and for preparing expression cassettes for suppressing or cubancing and for preparing expression cassettes for suppressing or cubancing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 useful for modulating seed development and for inducing ecctopic development of embryonic tissue in a plant. In both cases, the LEG polynucleotide is introduced into the plant through a sexual cross of the polynucleotide.
  LOWO KS.
                                              (DUPO ) DU PONT DE NEMOURS & CO E 1.
                                                                                                                         10-NOV-1998;
                                                                                                                                                09-NOV 1558;
                                                                                                                                                                                                 1,6661-AON 60
                                                                                                                                                                                                                                                  18 MAY - 2000
                                                                                                                                                                                                                                                                                                                                                                                             Selectable market; transgenic plant; transgenic seed; HAP3
                                                                                                                                                                                                                                                                                                                                                                                                                  Soybean; leafy cotyledon 1 transcriptional activator; LEC1; apomixis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Soybean LEC1 # 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAY96216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY96216 standard; Protein; 240 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             endogenous LEC1 gene expression, which is useful in wood control or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            specifying cotyledom identity during embryo development, LECL polymerical are polypeptides may act as transcription factors. LECL polymericolides are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence represents a Leafy Cotyledon I (LECI) polypeptide. LECI genes are thought to play a central tole in late embryogenesis, in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 6; Page 54-54; 69pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N PSDB; AAZ45838.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          148 pshylpppqpyqmildqsmvmqqqryyqn 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  121 PSHGTFLEHTHTHTHTHTHTHTHTHTHTHTHTHTH
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Gordon-Kamm WJ, Klein TM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               208 AA;
                                                                                                                      9805-0107643.
9805-0107810.
                                                                                                                                                                                                 99WO US26514
Rasco-Gaunt S. Cahoon KE:
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Sun X,

Hoerster GJ,

Gregory CA,

Nadimpalli R:

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expression in the nuclellus intequaent, or cell specific expression in the megaspore mother cell would trigger embryo formation from maternal tissues only. This results in the production of seeds identical to the parent. Using LETL transferic high yielding seeds could be developed. In addition, LECL could be used for positive selection of a transformed cell (transferic plant), for increasing transformation efficiency and for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence is the soybean leafy cotyledom i transcriptional activator, LECI. This sequence is a HABS-type CCAAT-box binding protein. LECI expression initiates the formation of embryo-like structures and improves growth and re-bovery of transformants. When appunixis occurs, i.e. the replacement of sexual reproduction by asoxial reproduction, LECI the replacement of sexual reproduction by asoxial reproduction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; AAA27456.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 13; Page 82; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            particularly Leafy cotyledon 1 transcriptional activator, useful for inducing somatic embryogenesis or apomixis in a plant cell -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New HAP3 type CCAAT box binding transcriptional activators.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                     Soybean; leafy cotyledon I transcriptional activator; LECI; apomixis; selectable marker; transgenic plant; transgenic seed; HAP3.
                                                                                                                                                                                                                                                                                                                                                                            Soybean LEC1 # 2 protein # 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAY96224 standard; Protein; 355 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        increasing recovery of regenerated plants.
                                                                                                                                                                             :6661-AON-60
                                                                                                                                                                                                                                                      W0200028058-A2
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                                                                                                                                                                                                                18-MAY-2000
                 Sun X. Hoerster CJ. Gregory CA.
                                  Lowe ks,
                                                                  (DUPO ) DU PONT DE NEMOURS & CO E I.
                                                                                       (PION-) PIONEER HI-BRED INT INC
                                                                                                                                             :866.1-AON-60
                                                                                                                          :8561-AUN-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              120 GESHGLPPPGPYGYGMLDQSMVMG 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 --tafvpppyhhhnqyfqaampmg 202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 ITAEDILMAMSKLCFDNYVDPLTVEINRYREIETDRGSALFGFPPSLFQT-VGGAGGGFH 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 REQDQYMPIANVIRIMEKTIPSHAKISDBAKETIQECVSEYISTVTGEAHERGQSEÇFFT (O
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                                    Gordon Name WJ, Kiein IM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        240 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              59.3%, Secret 477, DB 21, Length 240: itarity 66.0%; Pred. No. 1.7e-45; Conservative 20; Mismatches 23; Indels 6: Gaps
                                                                                                                          98US-0107810.
                                                                                                                                             980S-0107643.
                                                                                                                                                                             99₩0-U$26514.
                 Nadimpalli R;
                                    RasiviGaubt S,
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AAY96220
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                                                                                                                                                                                                                                                                                 Query Match 59.2%; Score 476; DB 21; Length 355; Rost Local Similarity 66.0%. Prod No 3.86-45; Matches 95; Conservative 18; Mismatches 23; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New HAP3 type CCAAT box binding transcriptional activators, particularly leafy coryledon I transcriptional activator, useful for inducing somatic embryogenesis or apomixis in a plant cell -
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N-PSDR: AAA27460.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         transformed cell (transgenic plant), for increasing transformation efficiency and for increasing receiving of representation white this sequence is different from that of AAY96220, even though they are both encoded by the same nucleatide sequence (AAA27460). The AAY96220 sequence has 18 stop codons distributed throughout the CES, while the protein of AAY96224 has the stop codons omitted.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present sequence is the soybean leafy cotyledon? transcriptional artivator, LECT. This sequence is a HAPB-type CCAAT box kinding protein. LECT expression initiates the formation of embryo like structures and improves growth and recovery of transformants. When apomixis occurs, i.e. the replacement of sexual reproduction by assexual reproduction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 13; Page 89-90; 94pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ter' expression in the madelins
                                                                                                                                                                                                                            Key Location/Qualifiers Misc-difference 1..373
                                                                                                                                                                                                                                                                                                       Glycine max.
                                                                                                                                                                                                                                                                                                                                                                                                                         Soybean LEC1 # 2 protein # 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY96220;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAY96220 standard; Protein; 373 AA
(9-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                Soybean; leafy cotyledon I transcriptional activator; LECL; apomixis; selectable marker; transgenic plant; transgenic seed; HAPA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-SEP-2000 (first entry)
                                           09-NOV-1999;
                                                                                                                                      WO200028058-A2
                                                                                        18-MAY-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            118 itaedviwamekigfddyiepitmyThryrciegdr-tsmrgepiqkrivoyatlataf- 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         120 GPSHGLPPPGPYGYGMLDQSMVMG 143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61 ITAEDILWAMSKLGFDNYVDPLTVFINRYPEIFTDBGSALRGEPPSIRQT-YGGNGIGFH 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  58 regdrimpianvirimikilpphakisddaketiqecvseyisiltgcamercgregrkt 117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 REQDOMBIANVIETMEKTIPSHAKISUPAKETTOFOVSPYTSFUTOFANEDOOPFORKT KÜ
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                                             99W0-US26514
                                                                                                                                                                              /note- "All Xs are unspecified residues encoded by stop codons" % \left( \frac{1}{2}\right) =\frac{1}{2}\left( \frac{1}{2}\right) ^{2}
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PERSONAL PARTICIPATION AND PRODUCTS AND PROD
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Best Local Sumilarity
                                                                                                                                                                                                                                                                                                                                       ZV RUGHETT FLOOR
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     9808-0107810
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Best Local Similarity
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                                                                      19-NOV-1999;
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                                                                                                                                                                                                                                          selectable marker; transgenic plant; transgenic seed, HAP3
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980S-0107810
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                                     98US-0107643.
                  9808-0107810
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Query Match 57.0%; Score 458; OB 21; Longth 171; Best Local Similarity 64.7%; Prod. No. 1.5e-43; Matches 90; Conservative 17; Mismatches 18; Indels 14; Gaps
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                                                Maize; leafy cotyledon 1 transcriptional activator; LEC1; apomixis;
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                                                                                   16.661 AUN 60
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                                                    Plact transmighter fast n. Jane organista, entalytis, j.i.e. a. (a) poplar sweather train materials. Place the holding from a basic helia loop facility hyper, bomcoffe, bomcodomain, bomcobox; MADS; homeodomain zipper; LLM domain; AP2; EREBs; zinc finder domain; type 2 Cys2His2, CCAAI box element, MYB.
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                                                                                                                                                                            Pinus radiata transcription factor protein sequence #129
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hes 85; Conserv
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AAG04651
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   encallyptus, pine, acadia, paplar, sweetyam, teak, or adhogany species or to modify the activity of a polypeptide in a plant. The transcription factors of the present invention are members from the following families of regulatory pactors. LCIP, LCIP family of 6 box binding factors, basis belia legal to the present of the property of the property of the particles of the property 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention relates to novel plant transcription factors from Eucalyptus grands or Pinus relatat. The present sequence is one such transcription factor. The transcription factor by transcription factor by the used to produce a plant having meditired proceedings such as a woody plant e.g. a plant having meditired proceedings such as a woody plant e.g. a
                                                                                         Arabidopsis thailana
                                                                                                                                                                                                                                                                                             Arabidopsis thaliana protein tragment SEQ ID NO: 757
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hybridisation assays genetic mapping, gene expression control; promoters
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19-AUS 1999; 99US 0149485.
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                                                    protein identification: signal transduction pathway: metabolic pathway:
hybridisation assay: genetic mapping; gene expression control: promoter:
termination sequence.
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                                                                                                         Arabidopsis thuliana protein fragment SEQ ID NO: 62336.
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                           Arabidopsis thaliana
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